

Practice

For use with pages 225–229

Find the sum or difference.

1. $\frac{12}{13} + \frac{12}{13}$

2. $\frac{1}{10} - \frac{9}{10}$

3. $-\frac{13}{32} + \left(-\frac{13}{32}\right)$

4. $\frac{34}{43} - \left(-\frac{12}{43}\right)$

5. $-\frac{11}{30} - \left(-\frac{7}{30}\right)$

6. $-\frac{17}{50} + \frac{19}{50}$

7. $\frac{43}{100} - \left(-\frac{17}{100}\right)$

8. $\frac{9}{80} - \frac{51}{80}$

9. $8\frac{7}{10} + 3\frac{9}{10}$

10. $5\frac{1}{7} - 6\frac{2}{7}$

11. $3\frac{1}{15} - 7\frac{11}{15}$

12. $1\frac{2}{9} - 12\frac{7}{9}$

13. $24\frac{17}{22} - 16\frac{5}{22}$

14. $\frac{4}{5} - \left(-3\frac{4}{5}\right)$

15. $20\frac{5}{6} + \left(-18\frac{5}{6}\right)$

16. $-4\frac{11}{16} - \frac{15}{16}$

Simplify the expression.

17. $\frac{7x}{20} + \frac{17x}{20}$

18. $\frac{19x}{28} + \frac{x}{28}$

19. $-\frac{9}{14x} + \frac{17}{14x}$

20. $-\frac{4x}{45} - \frac{41x}{45}$

21. $\frac{4}{x} - \frac{11}{x}$

22. $\frac{7}{24x} + \left(-\frac{5}{24x}\right)$

23. $\frac{11}{12x} - \left(-\frac{5}{12x}\right)$

24. $\frac{8}{5x} + \frac{3}{5x} - \left(-\frac{4}{5x}\right)$

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Evaluate the expression.

25. $\frac{1}{12} + \frac{5}{12} + \frac{11}{12}$

26. $\frac{5}{8} + \frac{7}{8} + \left(-\frac{3}{8}\right)$

27. $-\frac{9}{14} + \frac{3}{14} + \frac{5}{14}$

28. $\frac{4}{7} - \left(-\frac{2}{7}\right) + \frac{5}{7}$

29. $-\frac{7}{9} - \frac{4}{9} - \frac{2}{9}$

30. $-\frac{9}{20} + \frac{11}{20} - \left(-\frac{3}{20}\right)$

31. You have a piece of wood that is $7\frac{3}{4}$ feet long. You want to cut one piece that is $3\frac{7}{12}$ feet long and one piece that is $4\frac{1}{12}$ feet long. Do you have enough wood? Explain.

32. You run the 60-yard dash in $7\frac{9}{20}$ seconds. Your friend runs it in $6\frac{19}{20}$ seconds. How much faster is your friend's time?

33. Three puppies weigh $1\frac{1}{16}$ pounds, $1\frac{3}{16}$ pounds, and $\frac{15}{16}$ pound. You are carrying all three in a basket. Find the total weight of the three puppies.